

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P35262WO	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/GB 03/ 03529	International filing date (day/month/year) 13/08/2003	(Earliest) Priority Date (day/month/year) 13/08/2002
Applicant HAPTOGEN LTD		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :



contained in the international application in written form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☒ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

**4. With regard to the title,**

the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

METHODS FOR THE TREATMENT OF AN INFECTIOUS BACTERIAL DISEASE WITH AN ANTI-LACTONE OR LACTONE DERIVED SIGNAL MOLECULES ANTIBODY

**5. With regard to the abstract,**

the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.



as suggested by the applicant.



because the applicant failed to suggest a figure.



because this figure better characterizes the invention.

3



None of the figures.

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/03/03529

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 A61K39/395 A61K39/40 A61P31/04

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, EPO-Internal, WPI Data, PAJ, MEDLINE

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01 94543 A (QUAY STEVEN C ;QUAY ENTPR LLC K (US)) 13 December 2001 (2001-12-13) page 3, line 16-20 page 5, line 14 -page 6, line 9 page 27, line 20-26 claims 39,52-61,64-67,71,72,74,75,81-83,85,88-98, 105  ----- -/--	1-35

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

28 November 2003

Date of mailing of the international search report

12/12/2003

Name and mailing address of the ISA

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Authorized officer

COVONE-VAN HEES, M

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB98/03529

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Details of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WU H ET AL: "Detection of N-acylhomoserine lactones in lung tissues of mice infected with Pseudomonas aeruginosa."</p> <p>MICROBIOLOGY (READING, ENGLAND) ENGLAND OCT 2000, vol. 146 ( Pt 10), October 2000 (2000-10), pages 2481-2493, XP002263253 ISSN: 1350-0872 abstract page 2482, left-hand column, paragraph 3 page 2491, right-hand column, paragraph 3 -page 2492, left-hand column, paragraph 1</p>	1-35
X	<p>REVERCHON SYLVIE ET AL: "New synthetic analogues of N-acyl homoserine lactones as agonists or antagonists of transcriptional regulators involved in bacterial quorum sensing."</p> <p>BIOORGANIC &amp; MEDICINAL CHEMISTRY LETTERS. ENGLAND 22 APR 2002, vol. 12, no. 8, 22 April 2002 (2002-04-22), pages 1153-1157, XP002263254 ISSN: 0960-894X introduction</p>	1-35
A	<p>WO 99 27786 A (LYNCH MARTIN JOHN ;SWIFT SIMON (GB); WILLIAMS PAUL (GB); FISH LEIG) 10 June 1999 (1999-06-10) page 2, line 7-9 page 4, paragraph 3 -page 5, paragraph 1 page 7</p>	1-35
A	<p>DONG Y-H ET AL: "QUENCHING QUORUM-SENSING-DEPENDENT BACTERIAL INFECTION BY AN N-ACYL HOMOSERINE LACTONASE"</p> <p>NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 6839, no. 411, 14 June 2001 (2001-06-14), pages 813-817, XP001093866 ISSN: 0028-0836 the whole document</p>	1-35
A	<p>HARTMAN G ET AL: "Quorum sensing: potential means of treating gram-negative infections?"</p> <p>LANCET. ENGLAND 21 MAR 1998, vol. 351, no. 9106, 21 March 1998 (1998-03-21), pages 848-849, XP001160986 ISSN: 0140-6736 the whole document</p>	1-35

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# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/93/03529

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>FINCH R G ET AL: "Quorum sensing: a novel target for anti-infective therapy." THE JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. ENGLAND NOV 1998, vol. 42, no. 5, November 1998 (1998-11), pages 569-571, XP002263255 ISSN: 0305-7453 the whole document</p>	1-35

# INTERNATIONAL SEARCH REPORT

International application No.  
F/GB 03/03529

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claims 19,34,35 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/03/03529

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0194543	A	13-12-2001	AU	7499801 A	17-12-2001
			EP	1299118 A2	09-04-2003
			WO	0194543 A2	13-12-2001
WO 9927786	A	10-06-1999	AU	1252499 A	16-06-1999
			WO	9927786 A1	10-06-1999